Plutonium Finishing Plant Project S. M. Sax, Acting Project Director/ (509) 373-5377



232-Z Decommissioning in Progress





Legacy Holdup Removal Activities

OVERVIEW

The Plutonium Finishing Plant (PFP) Project is responsible for work in Project Baseline Summary RL-CP03, *Plutonium Finishing Plant*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of September 2003.

TOP FY 2003 ACCOMPLISHMENTS

Polycube Stabilization was completed February 28, 2003, one month ahead of the baseline schedule.

PFP formally completed the Defense Nuclear Facilities Safety Board (DNFSB) commitment for residues repackaging, eight months ahead of the DNFSB milestone (i.e., six months ahead of the Fluor baseline commitment) (August 6, 2003).

PFP received the Voluntary Protection Program Star Status from the Department of Energy. PFP is the first former defense production facility to achieve this prestigious safety award (August 21, 2003).

Tri-Party Agreement Milestones M-83-20, *Submit Facility End Point Criteria Document to Ecology,* was submitted on time (September 30, 2003) and M-83-30, *Submit to Ecology a Closure Plan for 241-Z Waste Treatment Facility,* was submitted ahead of schedule (July 25, 2003).

The 241-Z-361 Engineering Evaluation/Cost Analysis (EE/CA) was sent to RL for submittal to regulators (August 26, 2003). The 232-Z EE/CA was forwarded to the Regulators by RL (July 1, 2003).

Ready For Demolition activities (Performance Incentive number S-5, Performance Objective 1, 6.I.) were completed in 234-5Z Bldg, Rooms 336 and 337. This was the first work established under the S5 Performance Incentive to be completed under the new contract scope (March 2003).

NOTABLE SEPTEMBER ACCOMPLISHMENTS

Maintain Safe and Secure Special Nuclear Materials

Transportation Evaluation Compliance Assessment Program for the use of 9975 shipping containers was successfully completed.

Stabilization of Nuclear Materials

Metals, Alloys, Oxides and Polycubes: Five hundred ninety-nine oxide items were produced during the reporting period. Contract-to-date 3,616 items have been processed, which is 73 items over the contract-to-date goal.

Outer Can Packaging: A total of one hundred fifty-four 3013 containers were produced during September. During the fiscal year, ninety six percent of the planned 3013 containers were produced.

Disposition of Nuclear Materials

A shipment of 72 pipe over pack containers were shipped to the Central Waste Complex in the month of September, and is on schedule.

NOTABLE SEPTEMBER ACCOMPLISHMENTS, CONTINUED

Disposition PFP Facility

Transition 232-Z Facility: The Washington Sate Department of Health (WDOH) approved the notice of completion (NOC) for "Transition of the 232-Z Contaminated Waste Recovery Process Facility at the Plutonium Finishing Plant" on September 3, 2003. All environmental permits required to start 232-Z decontamination and decommissioning (D&D) have been approved. The Low Level Waste (LLW) Surface Contaminated Object survey method was approved. This is an adaptation of a similar method used at Rocky Flats to survey equipment and designate them LLW. This will support designation of the 232-Z glove box as LLW following decontamination.

Transition 234-5Z Facility: The HC-9B glove box was disconnected from its power source. All peripheral motors were removed. All liquid lines into the glove box were capped. This allowed the glove box to be reposted (Criticality Safety Posting) for Plutonium Legacy Holdup removal work. The reactor vessel and drum filter (with associated components and piping) have been disassembled and removed.

Transition 236-Z Facility: A work shop to share technology information was conducted, which included subject matter experts from across the Site as well as some nationally recognized experts in the fields of D&D and robotics. Several technology options were identified. An evaluation and selection process is now under way.

Transition 241-Z Facility: PFP Environmental Engineering met with the WDOH on September 23, 2003, to review FH comments on their draft conditions and limitations to the 241-Z NOC. There were no significant issues.

FY 2003 SCHEDULE/COST PERFORMANCE (\$000)

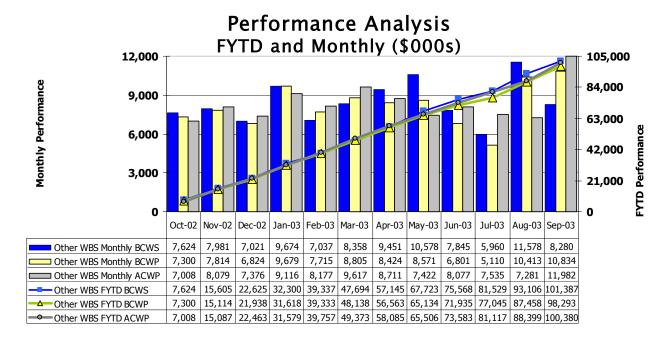
		Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion	
RL-CP03	Plutonium Finishing Plant	101,387	98,293	100,380	-3,095	-3%	-2,088	-2%	101,387	

NOTE: Numbers are rounded to the nearest \$K.

Schedule Variance (-\$3,095K/-3%): The unfavorable variance is primarily attributed to the following: delays in Legacy Holdup Removal activities due to lack of qualified field work teams, delay in D&D planning activities due to resources assigned to higher priority scope, delay in completion of various regulatory documents (finalizing Basis for Interim Operations, Vault Documented Safety Analysis and EE/CA); behind schedule on nondestructive analysis (NDA) reports and safety analysis report for packaging (SARP) evaluation for low-assay mixed oxide (MOX) (packaging of <10% MOX completed ahead of schedule), and delay in Minimum Safe Special Projects. The following corrective actions are planned: additional work teams are in training and reassignment of resources to D&D planning activities as higher priority scope is completed; regulatory documents have been initiated and will complete in FY 2004 with no impact; NDA reports and SARP evaluation will be completed in early FY 2004 with no impact to overall stabilization schedule; and Minimum Safe Special Projects will be performed on an non-interference basis.

FY 2003 SCHEDULE/COST PERFORMANCE, CONTINUED

Cost Variance (-\$2,088K/-2%): The unfavorable variance is primarily attributed to the following: increased stabilization costs as a result of equipment un-reliability; increased costs required for preparation and receipt of Fast Flux Test Facility (FFTF) fuel shipments and accelerated preparation for shipments to Savannah River Site (SRS); and increased assessment and labor costs in Project Management. The following corrective action is planned: evaluate and implement corrective actions on equipment reliability. Increased costs associated with the FFTF fuel shipments are not recoverable, and increases in Project Management were partially offset by the favorable indirect variance distribution in August.



MILESTONE ACHIEVEMENT

Number	Milestone Title	Туре	Due Date	Actual Date	Forecast Date	Status/ Comments
TRP-02-501	Complete Stabilization and Packaging of Polycubes	DNFSB	3/31/03	2/28/03		Complete
TRP-03-501	Submit Facility End Point Criteria Document to Ecology	TPA	9/30/03	9/30/03		Complete
TRP-03-503	Submit to Ecology a PFP Residual Chemical Hazards Assessment	TPA	12/31/02	12/27/02		Complete
TRP-03-504	Submit Closure Plan for 241-Z Waste Treatment Facility TSD Unit to Ecology	ТРА	7/31/03	7/25/03		Complete
TRP-04-506	Completion of all Pu Stabilization & Packaging	ΡΙ	2/18/04			On Schedule
TRP-04-508	Complete Repackaging of PFP Residues and Ship to CWC	ТРА	4/30/04			Repackaging is complete. Shipment to CWC will be impacted since request to lower the attractiveness level D was denied.
TRP-05-501	Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms	TPA	6/30/05			On Schedule
TRP-05-503	Special Nuclear Material Transferred to Savannah River Site of DOE Approved Interim Storage	PI	9/30/05			On Schedule
TRP-05-504	Legacy Pu Holdup Removed & Dispositioned	PI	9/30/05			On Schedule
TRP-06-501	Complete 100% of Legacy Pu Holdup Removal & Disposition	TPA	9/30/06			On Schedule
TRP-06-502	Complete Transition & Dismantlement of the 232-Z Bldg Incinerator	ТРА	9/30/06			On Schedule
TRP-06-503	Protected Area Eliminated	ΡI	12/31/05			On Schedule
TRP-06-507	PFP Facilities (61 Buildings) Ready For Demolition	ΡI	9/30/06			On Schedule

FY 2003 FH FUNDS VS FORECAST (\$000)

		Funding Received		Actual Cost		Variance	
RL-CP03 Plutonium Finishing Plant							
Project Completion - Operating	\$	109,678	\$	100,380	\$	9,298	

ISSUES

Shipment of the first 3013 containers to the Savannah River Site (SRS): PFP continues working with DOE (RL, HQ and SRS) to resolve issues and complete all activities needed to make the first shipment of material from PFP to SRS.